projections each comprising a rectangular part and a saw tooth-shaped part, wherein the recesses separate the rectangular part and the saw tooth-shaped part.

7. The plastic tube according to claim **6**, wherein the rectangular part has a smaller height than the saw tooth-shaped part, so that the saw tooth-shaped part rests on the shoulder when the locking and snap-type connection is effected.

8. The plastic tube according to claim **1**, wherein the shoulder and the first end of the tube body overlap each other.

9. The plastic tube according to claim **8**, wherein the first end of the tube body engages over the shoulder from the outside.

10. The plastic tube according to claim **1**, wherein the neck changes over in a base area thereof into an elliptically, preferably convex shoulder, wherein the tube body connected to the shoulder has a hexagonal cross-section.

11. The plastic tube according to claim **10**, wherein the shoulder of the neck is constructed such that the edge of the screw cap slides on the shoulder when the screw cap is screwed onto the neck, wherein the shoulder is of an elastic, flexible plastic material, so that a sealing contact between the screw cap and the neck is achieved only at the end of the screwing procedure after overcoming a frictional force, whereby the overcoming of the frictional force serves to secure the sealing contact of the screw cap with the neck.

12. The plastic tube according to claim **11**, wherein the screw cap comprises an oval cap and a sleeve extending from a bottom of the cap in longitudinal direction, the sleeve having the internal thread, wherein the internal thread has at an end face of the sleeve a circumferential bevel, wherein the neck has at a transition to the shoulder a circumferential bead, so that the bevel slides onto the bead in the end position.

13. The plastic tube according to claim **12**, wherein the sleeve has in circumferential direction a conically shaped counterpiece, and wherein two diametrically oppositely located projections are mounted on the bead, wherein the projections serve as a stop for an edge of the counterpiece.

14. The plastic tube according to claim **13**, wherein the projections are located in a principal axis of the elliptical cross-section of the shoulder.

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